

## ABSTRACT

A system and method for the allocation of energy services within an energy grid comprising a plurality of mobile, selectively actuatable energy generating units each connected to the energy grid; a database populated with operating condition variables for each of the mobile energy generating units, actuation of each of the energy generating units based on the operating condition variables; data inputs for receiving actual operating conditions associated with each of the energy generating units; and a processor for analyzing the actual operating conditions and the operating condition variables to actuate each of the energy generating units when the actual operating conditions have a predetermined value as provided by the operating condition variables, wherein each of the mobile energy generating units has an operation cost based on predetermined factors, at least one alternative energy generating source has an operation cost also based on the predetermined factors, the processor calculating the operation cost for at least one mobile energy generating unit and for the at least one alternative energy generating source, the processor only actuating the at least one energy generating unit when its operating cost is less than the operating cost of the at least one alternative energy source.